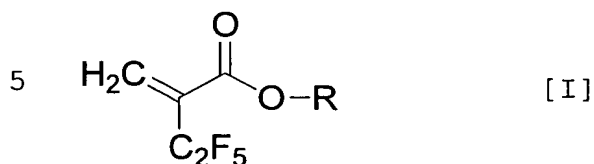


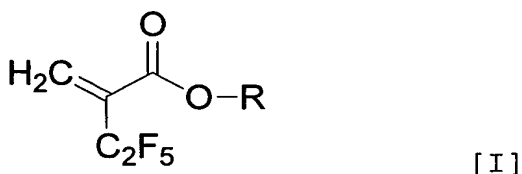
CLAIMS

(1) An α -pentafluoroethyl acrylic acid derivative represented by the general formula [I]:



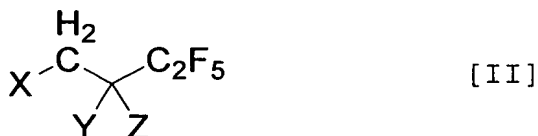
[wherein R represents a hydrogen atom, a non-substituted or substituted aromatic ring, or a straight or branched alkyl group having 1 to 20 carbon(s) which may have a cyclic moiety optionally substituted with at least one substituent (halogen atom, hydroxyl group, straight or branched alkoxy group having 1 to 10 carbon(s) which may have a cyclic moiety, non-substituted or substituted aromatic group)].

(2) A method of producing an α -pentafluoroethyl acrylic acid derivative represented by the general formula [I]:



[wherein R represents a hydrogen atom, a non-substituted or substituted aromatic ring, or a straight or branched alkyl group having 1 to 20 carbon(s) which may have a cyclic moiety optionally substituted with at least one substituent (halogen atom, hydroxyl group, straight or branched alkoxy group having

1 to 10 carbon(s) which may have a cyclic moiety, non-substituted or substituted aromatic group)], by letting a hydrocarbon halide represented by the general formula [II]:



5 [wherein X represents a halogen atom or forms a bound together with Y, Y represents a hydrogen atom or forms a bond together with X, and Z represents a halogen atom] react with water and/or an alcohol represented by the general formula [III]:



10 [wherein R is as defined above] in the presence of a palladium catalyst, carbon monoxide, and a base.

(3) The production method according to claim 2, wherein the reaction is carried out in the presence of an iodine anion
15 generator.